

148615

**SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800**  
 Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 3/22/05 Serial # 000091708937 Priority Application Date 3/17/2000 JP  
 Your Name M. Lewis Examiner # \_\_\_\_\_  
 AU 2899 Phone 272-1838 Room 5A30  
 In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: \_\_\_\_\_

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements.

US 2001 0022362 P6Pub

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Other ☐  
 Secondary Refs ☐ Foreign Patents ☐  
 Teaching Refs ☐

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 29-27, 31-37 40-46 49-52

HOLL 031/036 257/657

Problem: See pages 1-3

Solution " " 3-6

Also please look at arguments  
1/31/05 pages 3, 4 and 10-20

**Staff Use Only**

Searcher: Harrison  
 Searcher Phone: 22511  
 Searcher Location: STIC-EIC2800, JEF-4B68  
 Date Searcher Picked Up: 4-7-05  
 Date Completed: 4-8-05  
 Searcher Prep/Rev Time: 119  
 Online Time: 62

**Type of Search**

Structure (#) \_\_\_\_\_  
 Bibliographic ☒  
 Litigation \_\_\_\_\_  
 Fulltext \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

**Vendors**

STN ☒  
 Dialog \_\_\_\_\_  
 Questel/Orbit \_\_\_\_\_  
 Lexis-Nexis \_\_\_\_\_  
 WWW/Internet \_\_\_\_\_  
 Other \_\_\_\_\_

CAS/STN FILE 'HCAPLUS' ENTERED AT 12:41:14 ON 08 APR 2005

L1 1 S US5376561/PN  
 L2 SEL PLU=ON L1 1- RN : 1 TERM  
 L3 409252 S L2  
 L4 1 S L1 AND L3  
 D ALL HITSTR  
 L5 37586 S (METALLIC OR METAL) (4A) COMPOSITE  
 L6 55718 S (?POLYMER? OR ?PLASTIC? OR ORGANIC) (4A) COMP  
 OSITE  
 L7 21626 S RESIN##### (4A) COMPOSITE  
 L8 66580 S (?POLYMER? OR ?PLASTIC? OR ORGANIC OR  
 RESIN) (1A) (METAL OR METALLIC)  
 L9 2918 S L5 AND (L6 OR L7) AND L8  
 L10 45911 S (PRODUCT OR FINAL OR FINISHED OR COMPONENT  
 OR MODULE OR DEVICE OR EQUIPMENT OR CONSUMER OR ELECTRONICS OR  
 MICROELECTRONIC) (4A) SUBSTRATE  
 L11 18 S L9 AND L10  
 L12 SEL PLU=ON L11 1- RN : 103 TERMS  
 L13 3627848 S L12  
 L14 16 S L11 AND L13  
 D ALL HITSTR TOT  
 L15 6028 S (?POLYMER? OR ?PLASTIC? OR ORGANIC OR  
 RESIN OR RUBBER#### OR ?ELASTOMER) (3W) COAT##### (3W) (METAL OR  
 METALLIC)  
 L16 268 S (?POLYMER? OR ?PLASTIC? OR ORGANIC OR  
 RESIN OR RUBBER#### OR ?ELASTOMER) (3W) MATRIX (3W) (METAL OR  
 METALLIC)  
 L17 3567 S (COAT##### OR MATRIX) (3W) (METAL OR  
 METALLIC) (3W) (?POLYMER? OR ?PLASTIC? OR ORGANIC OR RESIN OR  
 RUBBER#### OR ?ELASTOMER)  
 L18 3394 S (COAT##### OR MATRIX) (3W) (?POLYMER? OR  
 ?PLASTIC? OR ORGANIC OR RESIN OR RUBBER#### OR ?ELASTOMER) (3W) (METAL OR METALLIC)  
 L19 3089 S (?POLYMER? OR ?PLASTIC? OR ORGANIC OR  
 RESIN OR RUBBER#### OR ?ELASTOMER) (3W) (METAL OR METALLIC) (3W) (COAT##### OR MATRIX)  
 L20 2952 S (METAL OR METALLIC) (3W) (?POLYMER? OR  
 ?PLASTIC? OR ORGANIC OR RESIN OR RUBBER#### OR ?ELASTOMER) (3W) (COAT##### OR MATRIX)  
 L21 3574 S (METAL OR METALLIC) (3W) (MATRIX OR COAT#####  
 ) (3W) (?POLYMER? OR ?PLASTIC? OR ORGANIC OR RESIN OR RUBBER#### OR ?ELASTOMER)  
 L22 9372 S (METALI? OR METALLI?) (2A) (?POLYMER? OR  
 ?PLASTIC? OR ORGANIC OR RESIN OR RUBBER#### OR ?ELASTOMER)  
 L23 2 S L11 NOT L14  
 D ALL TOT  
 L24 138 S L10 AND (L15 OR L16 OR L17 OR L18 OR L19  
 OR L20 OR L21 OR L22)  
 L25 133 S L24 NOT L11  
 L26 57 S L25 AND MATERIALS/IT  
 L27 1 S L25 AND ORGANIC COMPOUNDS/IT  
 L28 10 S L25 AND ELECTROLUMINESCENT DEVICES/IT  
 L29 2 S L25 AND LIQUID CRYSTAL DISPLAYS/IT  
 L30 1 S L25 AND THIN FILM TRANSISTORS/IT  
 L31 6 S L25 AND ADHESIVES/IT  
 L32 2 S L25 AND JOINING/IT  
 L33 19 S (L27 OR L28 OR L29 OR L30 OR L31 OR L32)  
 L34 SEL PLU=ON L33 1- RN : 108 TERMS

FILE 'REGISTRY' ENTERED

L35 108 S L34  
 L36 107 S L35 NOT SILICON/CN

FILE 'HCAPLUS' ENTERED

L37 18 S L36 AND L33  
 L38 19 S L33 OR L37  
 D ALL HITSTR TOT  
 L39 12 S (L25 OR L26) AND COMPOSITE  
 L40 9 S L39 NOT L33  
 L41 SEL PLU=ON L40 1- RN : 89 TERMS

FILE 'REGISTRY' ENTERED

L42 89 S L41  
 L43 89 S L42 NOT SILICON/CN

FILE 'HCAPLUS' ENTERED

L44 8 S L43 AND L40  
 L45 9 S L40 OR L44  
 D ALL HITSTR TOT  
 L46 714 S (METAL OR METALLIC OR METALI? OR METALLI?) (W) (?POLYMER? OR ?PLASTIC? OR ORGANIC OR RESIN OR ELASTOMER? OR RUBBER? OR THERMOSET?) (W) COMPOSITE  
 L47 597 S (?POLYMER? OR ?PLASTIC? OR ORGANIC OR RESIN OR ELASTOMER? OR RUBBER? OR THERMOSET?) (W) (METAL OR METALLIC OR METALI? OR METALLI?) (W) COMPOSITE  
 L48 146 S COMPOSITE(2W) (?POLYMER? OR ?PLASTIC? OR ORGANIC OR RESIN OR ELASTOMER? OR RUBBER? OR THERMOSET?) (W) (METAL OR METALLIC OR METALI? OR METALLI?)  
 L49 184 S COMPOSITE(2W) (METAL OR METALLIC OR METALI? OR METALLI?) (W) (?POLYMER? OR ?PLASTIC? OR ORGANIC OR RESIN OR ELASTOMER? OR RUBBER? OR THERMOSET?)  
 L50 2199 S (L9 OR (L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22) OR (L46 OR L47 OR L48 OR L49)) AND SUBSTRATE /TI,IT,ST  
 L51 132 S L50 AND (FLEX##### OR CTE OR THERMAL### # (3A) (EXPAN##### OR COEFF#####) OR EXPAN##### (3A) COEFF#####)  
 L52 28 S L45 OR L33  
 L53 129 S L51 NOT L52  
 L54 82 S L50 AND REINFORC#####  
 L55 81 S L54 NOT L52  
 L56 208 S L53 OR L55

FILE 'REGISTRY' ENTERED

L57 1070 S ARTON OR ((POLYETHER OR ETHER) AND SULFONE) OR POLYETHYLENE AND TEREPHTHALATE OR PET

FILE 'HCAPLUS' ENTERED

L58 30 S L56 AND (ARTON OR ((POLYETHER OR ETHER) AND SULFONE) OR POLYETHYLENE AND TEREPHTHALATE OR PET OR L57)  
 D ALL HITSTR TOT

FILE 'REGISTRY' ENTERED

L59 1 S ALUMINUM/CN

FILE 'HCAPLUS' ENTERED

L60 56 S L56 AND (L59 OR FOIL)  
 L61 48 S L60 NOT L58

FILE 'REGISTRY' ENTERED

L62 3376 S RESIN#####

FILE 'HCAPLUS' ENTERED

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L63      27 S (L62 OR RESIN) AND L61
          D ALL HITSTR TOT
L64      3011 S ((L6 OR L7 OR L8) OR (L15 OR L16 OR L17 OR
          L18 OR L19 OR L20 OR L21 OR L22) OR (L46 OR L47 OR L48 OR L49
          OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR L56)) AND FOIL
L65      1077 S FOIL(5A) (COMPOSITE OR COATED OR SUBSTRATE
          OR REINFORC##### OR FLEX#####) AND L64
L66      1067 S L65 NOT (L63 OR L58 OR L52)
L67      142 S L66 AND METAL#####(3A) SUBSTRATE
L68      150 S L66 AND (?PLASTIC? OR RUBBER? OR ?ELASTOMER
          ? OR ?POLYMER? OR RESIN##### OR ORGANIC) (3A) SUBSTRATE
L69      83 S L67 AND L68
L70      2 S MANUFACTURING AND L69
          D ALL HITSTR TOT
L71      10 S L66 AND THERMOSET?(3A) SUBSTRATE
L72      3 S L67 AND L71
L73      2 S L72 NOT L70
          D ALL HITSTR TOT
L74      22508 S (METAL##### OR FOIL) (3A) (SANDWICH##### OR
          LAMINA#####)
L75      445 S L66 AND (?PLASTIC? OR RUBBER? OR ?ELASTOMER
          ? OR ?POLYMER? OR RESIN##### OR ORGANIC OR THERMOSET?) (3A) (SAN
          DWICH##### OR LAMINA#####)
L76      75730 S (?PLASTIC? OR RUBBER? OR ?ELASTOMER? OR
          ?POLYMER? OR RESIN##### OR ORGANIC OR THERMOSET?) (3A) (SANDWICH
          ##### OR LAMINA#####)
L77      10433 S L74 AND L76
L78      3564 S (L5 OR L6 OR L7 OR L8 OR L9 OR L10) AND
          L77
L79      907 S (L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR
          L21 OR L22) AND L77
L80      4 S (L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR
          L31 OR L32 OR L33) AND L77
L81      229 S (L46 OR L47 OR L48 OR L49 OR L50 OR L51 OR
          L52 OR L53 OR L54 OR L55 OR L56) AND L77
L82      3 S L61 AND L77
L83      1130 S ((L63 OR L64 OR L65 OR L66 OR L67 OR L68
          OR L69 OR L70 OR L71 OR L72 OR L73) OR L75) AND L77
L84      3871 S (L78 OR L79 OR L80 OR L81 OR L82 OR L83)
          NOT (L73 OR L70 OR L63 OR L58 OR L45 OR L33)
L85      816 S L84 AND (ARTON OR ((POLYETHER OR ETHER)
          AND SULFONE) OR POLYETHYLENE AND TEREPHTHALATE OR PET OR L57)
L86      2194 S L84 AND (L59 OR ALUMINUM OR ALUMINIUM OR
          FOIL)
L87      503 S L85 AND L86
L88      0 S L87 AND PIXEL#####
L89      13 S L87 AND PRODUCTION
L90      7 S L87 AND MANUFACTURING
L91      6 S L87 AND FABRICATION
L92      233 S L87 AND MATERIALS
L93      25 S (L89 OR L90 OR L91)
          D ALL HITSTR TOT
L94      98 S (SHEET##### OR FILL#####) AND (L89 OR L90
          OR L91 OR L92)
L95      92 S L94 NOT L93
L96      3846 S ((L84 OR L85 OR L86 OR L87 OR L88 OR L89
          OR L90 OR L91 OR L92) OR L94) NOT L93
L97      1 S TW486826/PN
L98      SEL PLU=ON L97 1- IC NCL ECLA FTERM : 2 TERMS
L99      307 S L98
L100     50 S L96 AND (L99 OR PIXEL##### OR PICTURE
          ELEMENT OR LC OR LCD OR AMLCD OR FLAT PANEL OR DISPLAY OR TFT
          OR THIN FILM TRANSISTOR)
L101     37 S (L85 OR L86) AND L100
L102     15 S SUBSTRATE/TI, ST, IT AND L100
L103     43 S (L101 OR L102)

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